

# **FLOWMASTER™**

## **AMERICAN THUNDER™**

### **SYSTEM #17149**

#### **1970-73 CHEVROLET CAMARO/PONTIAC FIREBIRD V-8**

**\* NOT FOR USE ON POLLUTION CONTROLLED VEHICLES \***

**(WELDING MAY BE REQUIRED)**

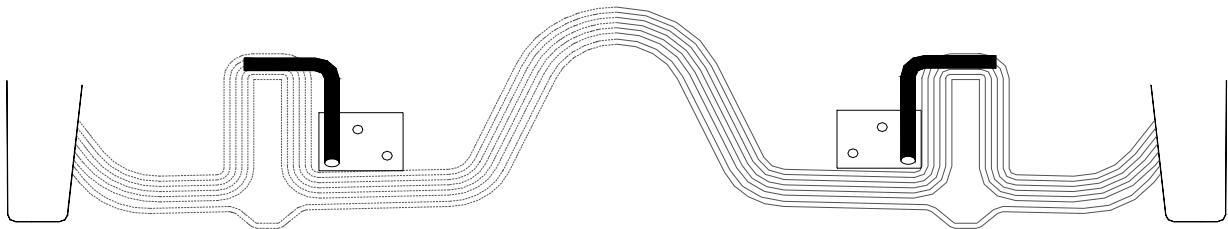
#### **Removal:**

- 1) Raise vehicle and support securely with jack stands.
- 2) Remove existing system from the header collector or manifold down pipes back.

#### **Installation:**

- 1) On the frame, at the rear of the vehicle there are two holes that are punched into the frame on either side of the vehicle. This is where hanger #239HA (for both the left and right side) must be mounted to support the rear of the tailpipe. Use the 1/4" x 1" self tapping screws to secure these two hangers into place. Then slide a rubber hanger #HA168 onto each of the two hangers.
- 2) Two pair of 3/8" holes will now need to be drilled in the rear seat pan area, that will be used to mount the muffler hanger brackets. The hangers should be placed into the position shown in the diagram below, and the hole locations center punched prior to drilling . (It is a good idea to remove the rear seat prior to drilling.) After the holes are drilled, the two stud plates will then be placed through the holes from the inside of the vehicle. The hanger brackets can then be secured with the 5/16" nuts and washers. See the diagram below for the proper position for the hangers. (The 3/8" holes are oversized, and will allow some final height adjustment.)
- 3) Place right tailpipe #16197 over the rear axle and so that the rear of the tailpipe exits between the quarter panel and the leaf spring. Do the same for the left tailpipe #16198.
- 4) Place a rubber hanger #HA168 onto each of the four hanger brackets that you have just installed.
- 6) Place the mufflers into position under the rear seat pan area, connect to the tailpipes and support with stands.
- 7) Install the front pipe assembly # 16195 by placing the rear of the front pipe assembly into the inlets of both mufflers and centering it in the drive line cavity. Support the front of the assembly with a stand, be sure that the mufflers and front pipe assembly are level. Once the mufflers and front pipe assembly are in place, check the tailpipe clearance where they go up in front of the rear axle to be sure there is adequate clearance.

- 8) Adjust the rear of the tailpipe so that it is centered between the fender and the leaf spring. Repeat this step for both sides of the vehicle . *Note: Due to variations in the bottom lip of the body in the rear quarter panel area, the rear tailpipe hanger rods may need to be bent up or down slightly to achieve the proper clearance under the body.*
- 9) Install flanges # SF014 and gasket # GA103 onto the header collectors and attach the nuts and bolts provided, tighten lightly. Insert reducer cone into the flange and adjust the angle of the reducer cone so that it is pointing straight back and so that it is level with the front pipe assembly. To simplify the installation of the reducer cones, we recommend tacking them in the correct position then removing them so they can be fully welded.
- 10) After the reducer cones have been installed, the adapter pipes can be trimmed and installed. Place one of the adapter pipes under the front slip fit joint of the front pipe assembly, and also under the reducer cone and mark the pipes where they need to be cut. Be as accurate as possible, measure twice and cut once. After the pipe has been trimmed, slide the connector pipe into both the front pipe assembly and the reducer cone. Repeat this step for the opposite side.
- 11) Adjust and align the position of all the pipes to provide a satisfactory fit. Maintain at least 3/4" clearance around the new FLOWMASTER Exhaust System and the chassis, drivetrain components , brake lines and fuel lines. Also keep suspension travel in mind.
- 12) Tighten all connections securely. For a “cleaner” fit the connections may be welded and the clamps removed. NOTE: After the hangers are adjusted to their final position, place the provided hanger keepers onto the end of all the hanger rods above the mufflers and the hangers that support the tailpipes. This will keep the hangers from slipping out of the rubber mounts.



**PACKING LIST FOR KIT #17149**

<u>Qty.</u>	<u>Description</u>	<u>Part No.</u>
2	Muffler	932556
1	H-Pipe Assembly	16195
2	Connector Pipe	16149
1	Tailpipe (Right)	16197
1	Tailpipe (Left)	16198
2	Reducer Cone	TB296
1	Parts Kit	PK359
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1	Muffler Hanger Bracket (L)	240HA
1	Muffler Hanger Bracket (R)	241HA
1	Hanger Bracket Stud Plate (L)	242HA
1	Hanger Bracket Stud Plate (R)	243HA
2	Tailpipe Hanger Bracket (R/L)	239HA
4	Rubber Hanger	HA168
2	3" Steel Flange	SF014
2	3" 3 Bolt Gasket	GA103
8	2 ½" Clamp	MC250S
4	5/16" Nuts	
4	5/16" Flat Washers	
4	5/16" Lock Washers	
6	3/8" X 1-1/4" Bolts	
6	3/8" Nuts	
6	3/8" Lock Washers	
4	1/4" x 1" Self Tapping Screws	
8	7/16" Hanger Keepers	

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